

Project Title	Funding	Strategic Plan Objective	Institution
Neuregulin 1 (NRG1) in autistic children	\$0	Q2.S.A	Hartwick College
Anti-GAD antibodies in autism	\$0	Q2.S.A	Hartwick College
MIG-6 tumor suppressor gene protein and ERK 1 and 2 and their association with EGF and EGFR in autistic children	\$0	Q2.S.A	Hartwick College
Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders	\$0	Q2.S.A	University of Southern California
Anti-Neuronal Autoantibodies against Bacterial Polysaccharides in Autism Spectrum Disorders	\$0	Q2.S.A	University of Oklahoma Health Sciences Center
Mechanisms of synaptic alterations in a neuroinflammation model of autism	\$0	Q2.S.A	University of Nebraska
Abnormalities in signal transduction in autism	\$0	Q2.S.A	New York State Institute for Basic Research in Developmental Disabilities
MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER	\$0	Q2.S.A	Feinstein Institute for Medical Research
The mechanism of the maternal infection risk factor for autism	\$0	Q2.S.A	California Institute of Technology
Elevated serum neurotensin and CRH levels in children with autistic spectrum disorders and tail-chasing Bull Terriers with a phenotype similar to autism.	\$0	Q2.S.A	Tufts University
Regulation of cortical circuits by tsc1 in GABAergic interneurons	\$0	Q2.S.B	Yale University
Undergraduate Research Award	\$0	Q2.S.B	University of Washington
Addressing challenges to post-mortem tissue donation in families affected with autism	\$0	Q2.S.C	Autism Science Foundation
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$0	Q2.S.D	King's College London
Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$0	Q2.S.D	Children's Hospital of Philadelphia
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$0	Q2.S.D	Boston Children's Hospital
Rapid screening for cortical circuit dysfunction in autism-related mouse models	\$0	Q2.S.D	University of California, Berkeley
Dendritic 'translatome' in fragile X syndrome and autism	\$0	Q2.S.D	University of Michigan
Probing the neural basis of social behavior in mice	\$0	Q2.S.D	Massachusetts Institute of Technology
Mechanisms of synapse elimination by autism-linked genes	\$0	Q2.S.D	University of Texas Southwestern Medical Center
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$0	Q2.S.D	University of North Carolina
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$0	Q2.S.D	Brown University

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Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$0	Q2.S.D	Nemours Children's Health System, Jacksonville
The role of Shank3 in neocortex versus striatum and the pathophysiology of autism	\$0	Q2.S.D	Duke University
Role of GABA interneurons in a genetic model of autism	\$0	Q2.S.D	Yale University
Linking circuit dynamics and behavior in a rat model of autism	\$0	Q2.S.D	University of California, San Francisco
Pragmatic language and social-emotional processing in autism, fragile X, and the FMR1 premutation	\$0	Q2.S.D	Northwestern University
Testing the ribosomal protein S6 as treatment target and biomarker in autism spectrum disorders	\$0	Q2.S.D	Cincinnati Children's Hospital
The Role of Glia in Fragile X Syndrome	\$0	Q2.S.D	Johns Hopkins University
Dysregulation of Mdm2-mediated p53 ubiquitination in autism mouse models	\$0	Q2.S.D	University of Illinois at Chicago
Probing the Molecular Mechanisms Underlying Autism: Examination of Dysregulated Protein Synthesis	\$0	Q2.S.D	National Institutes of Health
Mapping the Neurobehavioral Phenotype in Phelan McDermid Syndrome	\$0	Q2.S.D	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Neuropathology of the Shank3 mouse model for autism	\$0	Q2.S.D	University of Louisville
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	University of North Carolina
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	Duke University
Direct recording from autism brains	\$0	Q2.S.E	California Institute of Technology
AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?	\$0	Q2.S.E	Children's Mercy Hospital
Characterization of the sleep phenotype in adolescents and adults with autism spectrum disorder	\$0	Q2.S.E	Vanderbilt University
CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS	\$0	Q2.S.E	Naval Medical Research Center
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	Duke University
IMAGING DEPRESSION IN ADULTS WITH ASD	\$0	Q2.S.E	State University New York, Stony Brook
Role of the 16p11.2 CNV in autism: genetic, cognitive and synaptic/circuit analyses	\$0	Q2.S.G	Broad Institute, Inc.
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$0	Q2.S.G	Harvard University
Genetic investigations of motor stereotypies	\$0	Q2.S.G	Yale University

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Simons Variation in Individuals Project (VIP) Site	\$0	Q2.S.G	Baylor College of Medicine
Comprehensive phenotypic characterization of the 17q12 deletion syndrome	\$0	Q2.S.G	Weis Center for Research - Geisinger Clinic
A system-level approach for discovery of phenotype specific genetic variation in ASD	\$0	Q2.S.G	Hebrew University
Beta-catenin signaling in autism spectrum disorders	\$0	Q2.S.G	University of Illinois at Chicago
Assessing the Cognitive Deficits Associated with 16p11.2 Deletion Syndrome	\$0	Q2.S.G	Posit Science Corporation
Neurobiological Correlates of Motor Impairment in Children with 16p11.2	\$0	Q2.S.G	Children's Hospital of Philadelphia
Undergraduate Research Award	\$0	Q2.S.G	Boston University
Undergraduate Research Award	\$0	Q2.S.G	Harvard University
Undergraduate Research Award	\$0	Q2.S.G	Rutgers University
Identifying the gene in 17q12 responsible for neuropsychiatric phenotypes	\$0	Q2.S.G	Geisinger Clinic
Studying Williams Syndrome to Better Characterize Early Social Behavior in ASD	\$0	Q2.S.G	Washington University in St. Louis
Imaging markers of brain malformations in people with 16p11.2 alterations	\$0	Q2.S.G	New York University
Multimodal Characterization of the Brain Phenotype in Children with Duplication of the 7q11.23 Williams Syndrome Chromosomal Region: A Well-defined Genetic Model for Autism	\$0	Q2.S.G	National Institutes of Health
Undergraduate Research Award	\$0	Q2.L.A	Yale University
Gesture as a forerunner of linguistic change- insights from autism	\$0	Q2.L.A	Georgia State University
Near-infrared spectroscopy studies of early neural signatures of autism	\$0	Q2.L.B	Yale University
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$0	Q2.L.B	University of California, Santa Barbara
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$0	Q2.L.B	Harvard University
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$0	Q2.L.B	Stanford University
In-vivo MRS assay of brain glutamate-GABA balance and drug response in autism	\$0	Q2.L.B	King's College London
Undergraduate Research Award	\$0	Q2.L.B	SAN DIEGO STATE UNIVERSITY
Social Motivations and Striatal Circuit Development in Children and Adolescents with Autism	\$0	Q2.L.B	Stanford University

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SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	Q2.Other	University of Kentucky
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	Q2.Other	Massachusetts Institute of Technology
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	Q2.Other	Landmark College
Characterizing and Manipulating the Social Reward Dysfunction in a Novel Mouse Model for Autism	\$0	Q2.Other	Massachusetts Institute of Technology
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	Q2.Other	TERC Inc
Contribution of cerebellar CNTNAP2 to autism in a mouse model	\$0	Q2.Other	University of Oxford
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	University of Maryland
Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$0	Q2.Other	University of Washington
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$0	Q2.Other	Emerson College
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$0	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Social interaction and reward in autism: Possible role for ventral tegmental area	\$0	Q2.Other	University of Geneva
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	Q2.Other	University of Louisville
Local connectivity in altered excitation/inhibition balance states	\$0	Q2.Other	Weizmann Institute of Science
Abnormal connectivity in autism	\$0	Q2.Other	University of California, Los Angeles
CAREER: Statistical models and classification of time-varying shape	\$0	Q2.Other	University of Utah
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$0	Q2.Other	Georgia Tech Research Corporation
How autism affects speech understanding in multitalker environments	\$0	Q2.Other	University of Maryland
White matter glial pathology in autism	\$0	Q2.Other	East Tennessee State University
Atypical architecture of prefrontal cortex in young children with autism	\$0	Q2.Other	University of California, San Diego

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Neural basis of cross-modal influences on perception	\$0	Q2.Other	University of California, San Diego
Attention & word learning in children with ASD- Translating experimental findings into intervention	\$0	Q2.Other	Women & Infants Hospital
Action anticipation in infants	\$0	Q2.Other	University of Chicago
Mechanical characterization of brain tissue and individual neurons in Autism Spectrum Disorders	\$0	Q2.Other	Boston Children's Hospital
CAREER: Typical and atypical development of brain regions for theory of mind	\$0	Q2.Other	Massachusetts Institute of Technology
Functional analysis of EPHB2 mutations in autism - Project 1	\$0	Q2.Other	Yale University
Multisensory processing in autism	\$0	Q2.Other	Baylor College of Medicine
DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	Northwestern University
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	Q2.Other	Baylor College of Medicine
Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	\$0	Q2.Other	University of California, Irvine
A functional genomic analysis of the cerebral cortex	\$0	Q2.Other	University of California, Los Angeles
Mitochondrial Dysfunction and Autism Spectrum Disorders-Inflammatory Subtype	\$56	Q2.S.A	University of Arkansas
A Quantitative Study of Pyramidal Cells and Interneurons in the Cerebral Cortex	\$3,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Undergraduate Research Award	\$3,000	Q2.S.D	Texas A&M University
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$5,867	Q2.S.D	Case Western Reserve University
TSC/mTOR Signaling in Adult Hippocampal Neurogenesis: Impact on Treatment and Behavioral Models of Autism Spectrum Disorders in Mice	\$7,769	Q2.Other	University of California, Los Angeles
Development of a connectomic functional brain imaging endophenotype of autism	\$13,664	Q2.Other	University of Cambridge
Excitatory/Inhibitory Imbalance in Autism and Early- course Schizophrenia	\$14,931	Q2.L.B	Connecticut Mental Health Center Yale University
a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$15,000	Q2.Other	University of California, Davis
Exploration of the development and trajectory of Daily Living Skills in children and adolescents with autism spectrum disorder	\$15,600	Q2.Other	Cincinnati Children's Hospital
Transcriptional Regulators in Normal Human Brain Development and Autism	\$21,100	Q2.Other	University of California, Los Angeles
PPAR/SIRT1 PATHWAY IN C. ELEGANS	\$22,740	Q2.S.D	Children's Hospital of Philadelphia
Genetics Behind Brain Connectivity in ASD	\$25,000	Q2.S.G	University of Texas Southwestern Medical Center

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The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders	\$25,000	Q2.Other	University of California, San Diego
Brain Somatic Mosaicism at ASD-Associated Loci	\$25,000	Q2.Other	University of Michigan
FMRP and Pumilio co-regulate synaptogenesis by controlling Neuroglian expression	\$27,480	Q2.S.D	Vanderbilt University
Sensory contributions to autism spectrum disorders and links to social responsiveness	\$27,778	Q2.Other	Vanderbilt University
Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders	\$28,000	Q2.Other	New York University
Na ⁺ -H ⁺ Exchanger Mechanisms in Autism Pathophysiology and Treatment	\$29,475	Q2.Other	Brown University
Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	\$29,479	Q2.S.G	University of British Columbia
Identification and validation of genetic variants which cause the Autism Macrocephaly subphenotype	\$29,500	Q2.S.G	University of California, Los Angeles
Engagement of Social Cognitive Networks during Game Play in Autism	\$29,933	Q2.Other	Duke University
A Massively Parallel Approach to Functional Testing of PTEN Mutations	\$29,980	Q2.S.G	OREGON HEALTH & SCIENCE UNIVERSITY
Corticogenesis and Autism Spectrum Disorders: New Hypotheses on Transcriptional Regulation of Embryonic Neurogenesis by FGFs from In Vivo Studies and RNA-sequencing Analysis of Mouse Brain	\$29,993	Q2.Other	Yale University
Antigenic Specificity and Neurological Effects of Monoclonal Anti-brain Antibodies Isolated from Mothers of a Child with Autism Spectrum Disorder: Toward Protection Studies	\$30,000	Q2.S.A	The Feinstein Institute for Medical Research
Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry	\$30,000	Q2.S.B	Stanford University
Motor cortex plasticity in MeCP2 duplication syndrome	\$30,000	Q2.S.D	Baylor College of Medicine
Cell-type and circuit-specific functional deficits in cortex from gene disruptions linked to autism	\$30,000	Q2.S.D	University of North Carolina
Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder	\$30,000	Q2.S.D	Cold Spring Harbor Laboratory
Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures	\$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Genotype to Phenotype Association in Autism Spectrum Disorders	\$30,000	Q2.S.G	Massachusetts General Hospital
Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly	\$30,000	Q2.S.G	King's College London
Nonsocial Interests and Reward Processing in Autism Spectrum Disorders	\$30,000	Q2.L.B	Vanderbilt University

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Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD	\$30,000	Q2.Other	Columbia University
Signaling Pathways that Regulate Excitatory-inhibitory Balance	\$30,000	Q2.Other	University of California, San Diego
Investigating the Role of RBFOX1 in Autism Etiology	\$30,000	Q2.Other	University of Miami
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$30,000	Q2.Other	University of California, San Francisco
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	\$30,000	Q2.Other	Max Planck Florida Institute for Neuroscience
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	\$30,000	Q2.Other	University of California, Los Angeles
Developmental in Axons underlie Neuropsychiatric Illness	\$30,000	Q2.Other	Children's Research Institute (CRI)
Neurobiological foundations of self-conscious emotion understanding in adolescents with ASD	\$30,000	Q2.Other	University of Oregon
Alterations of the human brain structural connectome in preschool aged children with ASD	\$30,000	Q2.Other	University of California, Davis
Dissecting Reciprocal CNVs Associated With Autism	\$30,000	Q2.Other	Duke University
Activity-dependent Mechanisms of Visual Circuit Formation	\$30,000	Q2.Other	Children's Research Institute (CRI)
Interrogating Synaptic Transmission in Human Neurons	\$30,000	Q2.Other	Stanford University
Reconceptualizing Brain Connectivity and Development in Autism	\$30,000	Q2.Other	University of Miami
Mouse Model of Dup15q Syndrome	\$32,635	Q2.S.D	Texas AgriLife Research
Structural Polarity Influences Terminal Placement and Competition in Formation of the Calyx of Held	\$32,714	Q2.Other	WEST VIRGINIA UNIVERSITY
Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	\$33,333	Q2.Other	New York University
Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$33,503	Q2.Other	UPSTATE MEDICAL UNIVERSITY
Cortactin and Spine Dysfunction in Fragile X	\$33,763	Q2.S.D	University of California, Irvine
Calcium Channels as a Core Mechanism in the Neurobiology of ASD	\$35,000	Q2.S.D	Massachusetts General Hospital
Investigating Autism with Direct Intracranial Recordings	\$35,000	Q2.S.E	California Institute of Technology
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$35,232	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE
A Novel Essential Gene for Human Cognitive Function	\$35,474	Q2.S.D	Harvard University
Timed mRNA translation events in neocortical development and neurodevelopmental disorders	\$39,720	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Connectivity of the Posterior Cerebellum	\$39,720	Q2.Other	PRINCETON UNIVERSITY

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Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$44,400	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	\$45,000	Q2.Other	Cincinnati Children's Hospital
Understanding the Role of Epac2 in Cognitive Function	\$48,120	Q2.Other	Northwestern University
Local functional connectivity in the brains of people with autism	\$49,961	Q2.L.B	Massachusetts General Hospital
A Novel GABA Signalling Pathway in the CNS	\$50,000	Q2.Other	McLean Hospital
Investigating the role of Tsc1 in neocortical circuit assembly	\$52,406	Q2.S.D	STANFORD UNIVERSITY
Development of the Functional Touch Circuit	\$52,406	Q2.Other	Harvard University
Development of auditory circuits in mouse models of autism	\$54,194	Q2.Other	University of Maryland
The flexibility of individuation and ensemble representation	\$54,194	Q2.Other	Northwestern University
Identification of genetic pathways that regulate neuronal circuits in C. elegans	\$54,194	Q2.Other	University of California, San Diego
PET/MRI investigation of neuroinflammation in autism spectrum disorders	\$54,400	Q2.S.A	Massachusetts General Hospital
Dissecting the 16p11.2 CNV endophenotype in induced pluripotent stem cells	\$54,400	Q2.S.D	University of California, San Francisco
The role of UBE3A in autism: Is there a critical window for social development?	\$54,450	Q2.S.D	Erasmus University Medical Center
Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation	\$55,796	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Behavioral and Neural Variability in Autism Spectrum Disorder	\$56,000	Q2.Other	Vanderbilt University
Analysis of MEF2 in Cortical Connectivity and Autism-Associated Behaviors	\$56,042	Q2.S.D	McLean Hospital
Investigating role of neurexin-1 mutation in autism using human induced neurons	\$56,042	Q2.Other	STANFORD UNIVERSITY
Artifacts as Windows to Other Minds: Social Reasoning In Typical and ASD Children	\$56,042	Q2.Other	Boston University
Neural Synchrony and Plasticity in Children with Autism	\$56,100	Q2.Other	University of North Carolina
BAZ1B Haploinsufficiency and the Neuro-phenotypes of Williams Syndrome	\$59,000	Q2.S.D	The Regents of the University of California, Santa Barbara
An investigation of inductive learning in autism	\$59,770	Q2.Other	The Regents of the University of California, Berkeley
Role of Neurexin in Synapse Formation and Maintenance	\$59,966	Q2.Other	STANFORD UNIVERSITY

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Rescuing synaptic and circuit deficits in an Angelman syndrome mouse model	\$60,000	Q2.S.D	Arizona Board of Regents, University of Arizona
Potassium channels as therapeutic targets in autism	\$60,000	Q2.S.D	Administrators of the Tulane Educational Fund
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	\$60,000	Q2.S.D	University of Nebraska
Sleep Disordered Breathing, Microparticles and Proinflammation in ASD	\$60,000	Q2.S.E	Stanford University
Direct Recordings from the Brain in Autism	\$60,000	Q2.S.E	California Institute of Technology
Identifying a blood-based biomarker for Autism Spectrum Disorder-related inflammatory bowel disease	\$60,000	Q2.S.E	Wake Forest University
Explore the pathogenic role of mTor signaling in chr16p11.2 microdeletion	\$60,000	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
Impact of Pten mutations: brain growth trajectory and scaling of cell types	\$60,000	Q2.Other	The Scripps Research Institute
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	\$60,000	Q2.Other	Yale University
Optogenetic treatment of social behavior in autism	\$60,236	Q2.Other	University of California, Los Angeles
Bone marrow transplantation and the role of microglia in autism	\$62,380	Q2.S.A	University of Virginia
Functional analysis of EPHB2 mutations in autism	\$62,475	Q2.Other	McLean Hospital
Parameterizing Neural Habituation in ASD with Sensory Overresponsivity	\$62,479	Q2.Other	The Regents of the University of California, Los Angeles
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$62,497	Q2.S.D	New York University
Characterizing 22q11.2 abnormalities	\$62,498	Q2.S.D	Children's Hospital of Philadelphia
Neuronal translation in Tsc2+/- and Fmr1-/y mutant ASD mouse models	\$62,500	Q2.S.D	The Trustees of Columbia University in the City of New York
Illuminating the role of glia in a zebrafish model of Rett syndrome	\$62,500	Q2.S.D	The Regents of the University of California, San Diego
Dysregulation of mTor/Tsc in 22q11DS Autism Model	\$62,500	Q2.S.D	GEORGE WASHINGTON UNIVERSITY
The intersection between habit and anxiety in a genetic model of autism	\$62,500	Q2.S.E	Cold Spring Harbor Laboratory
Hippocampal mechanisms of social learning in animal models of autism	\$62,500	Q2.Other	Baylor College of Medicine
Role of LIN28/let-7 axis in autism	\$62,500	Q2.Other	Johns Hopkins University
Pathogenic roles of paternal-age-associated mutations in autism	\$62,500	Q2.Other	Weill Cornell Medical College
CNTNAP2 regulates production, migration and organization of cortical neurons	\$62,500	Q2.Other	Memorial Sloan-Kettering Cancer Center

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Understanding somatosensory deficits in Autism Spectrum Disorder	\$62,500	Q2.Other	President and Fellows of Harvard College
Visualizing neural circuits of social sensory processing	\$62,500	Q2.Other	University of North Carolina
Unreliability of neuronal responses in mouse models of autism	\$62,500	Q2.Other	Carnegie Mellon University
Mapping functional neural circuits that mediate social behaviors in autism	\$62,500	Q2.Other	Duke University
Alterations to corticothalamic circuitry in a mouse model of autism	\$74,000	Q2.Other	LOUISIANA STATE UNIV A&M COL BATON ROUGE
BDNF regulation of the cortical neuron transcriptome	\$76,792	Q2.Other	University of Colorado, Denver
The effect of maternal obesity and inflammation on neuronal and microglial function	\$78,250	Q2.S.A	MAYO CLINIC JACKSONVILLE
Axonal Ultrastructure of Temporal White Matter in Autism	\$78,250	Q2.Other	University of California, Davis
FMRP regulates the pruning of cell-to-cell connections in the neocortex	\$79,500	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Striatal Specific Alterations in Translation, Synaptic Function, and Behavior in	\$81,581	Q2.Other	New York University
Supplement to The Emergence and Stability of Autism in Fragile X Syndrome	\$82,061	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Shared and Distinct Developmental Pathways to ADHD and Autism Spectrum Disorder	\$82,062	Q2.S.E	University of California, Davis
CRISPR/Cas9-Based Functional Characterization of ANK2 Mutations in ASD Neural Circuitry	\$84,431	Q2.S.G	Massachusetts General Hospital
Validity and Reliability of New Standard for Resting fMRI Data	\$84,750	Q2.Other	New York University
Neurobiology of Rai1, a critical gene for syndromic ASDs	\$87,500	Q2.S.D	The Board of Trustees of the Leland Stanford Junior University (Stanford)
The IL-17 pathway in the rodent model of autism spectrum disorder	\$90,000	Q2.S.A	University of Massachusetts, Worcester
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$90,000	Q2.Other	MAYO CLINIC ROCHESTER
Building awareness of the value of brain tissue donation for autism research	\$90,165	Q2.S.C	Autism Science Foundation
Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	\$92,578	Q2.S.D	Baylor College of Medicine
Alternative splicing-mediated mechanisms of cortical interneuron maturation and circuit integration	\$98,061	Q2.Other	New York University
Speech Phenotype in 16p11.2	\$99,684	Q2.S.G	Murdoch Childrens Research Institute
Computational characterization of language use in autism spectrum disorder	\$99,966	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY

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Microglia in models of normal brain development, prenatal immune stress and genetic risk for autism	\$100,000	Q2.S.A	Harvard University
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$100,000	Q2.S.D	University of Washington
16p11.2 rearrangements: Genetic paradigms for neurodevelopmental disorders	\$100,000	Q2.S.D	University of Lausanne
Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$101,373	Q2.Other	University of California, Los Angeles
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$104,613	Q2.Other	UNIVERSITY OF FLORIDA
MAGEL2, a candidate gene for autism and Prader-Willi syndrome	\$105,977	Q2.S.D	University of Alberta
Project 4: Calcium Signaling Defects in Autism (Pessah/Lein)	\$107,518	Q2.Other	University of California, Davis
Project 3: Immune Environment Interaction and Neurodevelopment	\$107,931	Q2.S.A	University of California, Davis
Neuroimaging genetics to study social cognitive deficits in ASD and schizophrenia	\$118,500	Q2.S.G	Massachusetts General Hospital
Role of Autism Susceptibility Gene, TAOK2 kinase, and its novel substrates in Synaptogenesis	\$120,904	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Fragile X syndrome target analysis and its contribution to autism	\$124,725	Q2.S.D	Vanderbilt University
Probing synaptic receptor composition in mouse models of autism	\$124,998	Q2.S.D	Boston Children's Hospital
Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$125,000	Q2.S.B	Yale University
Sexually dimorphic gene-expression and regulation to evaluate ASD sex bias	\$125,000	Q2.S.B	University of California, San Francisco
Multigenic basis for autism linked to 22q13 chromosomal region	\$125,000	Q2.S.D	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY
Children with 7q11.23 duplication syndrome: shared characteristics with autism	\$125,000	Q2.S.G	University of Louisville
Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders.	\$125,000	Q2.Other	Brandeis University
Delineating the role of Ras/MAPK signaling in 16p11.2 phenotypes	\$125,000	Q2.Other	The Regents of the University of California, San Francisco (Contracts & Grants)
RNA dysregulation in autism	\$125,000	Q2.Other	ROCKEFELLER UNIVERSITY
Translational dysregulation of the RhoA pathway in autism	\$125,605	Q2.Other	The Regents of the University of California, San Diego
Brain Systems Underlying Episodic Memory for Social Stimuli in Childhood Autism	\$126,252	Q2.Other	STANFORD UNIVERSITY
Early Life Seizures Disrupt Critical Period Plasticity	\$135,045	Q2.S.E	University of Pennsylvania

Project Title	Funding	Strategic Plan Objective	Institution
IMAGING BRAIN FUNCTION IN CHILDREN WITH AUTISM SPECTRUM DISORDERS WITH DIFFUSE OPTICAL TOMOGRAPHY	\$141,211	Q2.Other	Washington University in St. Louis
Genomics Core	\$142,154	Q2.Other	University of California, San Diego
Endocannabinoids in social and repetitive behavioral domains	\$143,751	Q2.L.B	Vanderbilt University
Tools for manipulating local protein synthesis in the brain	\$148,500	Q2.Other	UNIVERSITY OF TORONTO
Multimodal Imaging of Social Brain Networks in ASD	\$149,499	Q2.Other	SAN DIEGO STATE UNIVERSITY
Folate receptor autoimmunity in Autism Spectrum Disorders	\$149,963	Q2.S.A	State University of New York, Downstate Medical Center
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Q2.Other	Massachusetts General Hospital
Molecular analysis of gene-environment interactions in the intestines of children with autism	\$150,000	Q2.S.E	Columbia University
Neural Circuits That Regulate Social Motivation in Autism	\$150,542	Q2.Other	University of North Carolina
Mechanisms underlying word learning in fragile X syndrome and nonsyndromic ASD	\$156,333	Q2.S.D	University of California, Davis
Structural and Functional Neuroimaging of the Auditory System in Autism	\$158,038	Q2.Other	Children's Hospital of Philadelphia
Targeting the PI3K Enhancer PIKE to Reverse FXS-associated Phenotypes	\$160,000	Q2.S.D	Emory University
Autism Spectrum Disorders and Depression: Shared Mechanisms in Brain and Behavior	\$160,115	Q2.S.E	Vanderbilt University
Direct Examination of Imitation-Based Learning in Autism	\$161,600	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$164,833	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
The genomic bridge project (GBP)	\$168,600	Q2.S.G	Massachusetts General Hospital
PREDICTING PRESCHOOL PSYCHOPATHOLOGY WITH BRAIN CONNECTIVITY IN PRETERM NEONATES	\$169,998	Q2.L.B	Washington University in St. Louis
Brain Systems Supporting Learning and Memory in Children with Autism	\$170,779	Q2.Other	STANFORD UNIVERSITY
Mechanisms underlying word learning in children with ASD: Non-social learning and	\$172,195	Q2.Other	Boston University
Maximizing Biospecimen Collection from Children with Mental Health Conditions	\$172,728	Q2.S.C	GROUP HEALTH COOPERATIVE
Neural Phenotypes of Females with Autism Spectrum Disorder	\$173,011	Q2.S.B	University of California, Davis
EEG-Based Assessment of Functional Connectivity in Autism	\$175,176	Q2.Other	HUGO W. MOSER RES INST KENNEDY KRIEGER

Project Title	Funding	Strategic Plan Objective	Institution
Decoding Neural Systems Underlying Affective Prosody in Children with Autism	\$175,960	Q2.Other	STANFORD UNIVERSITY
Neural Correlates of Biological Motion Perception in Children with ASD	\$177,012	Q2.L.A	Yale University
Prefrontal corticothalamic circuits in autism	\$178,646	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
mTOR modulation of myelination	\$179,659	Q2.S.D	Vanderbilt University
Role of Draxin in Forebrain Connectivity and Complex Behaviors	\$179,959	Q2.Other	WADSWORTH CENTER
Longitudinal Characterization of Functional Connectivity in Autism	\$182,352	Q2.L.A	UNIVERSITY OF UTAH
Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	Q2.S.A	Columbia University
Brain Network Development in Normal and Autistic Children	\$187,164	Q2.Other	UNIVERSITY OF UTAH
A mouse model for AUTS2-linked neurodevelopmental disorders	\$189,187	Q2.S.D	University of Illinois
fMRI and EEG approaches to the resting state in ASD	\$190,411	Q2.Other	SAN DIEGO STATE UNIVERSITY
Mechanisms underlying the Cerebellar Contribution to Autism in Mouse Models of Tuberous Sclerosis Complex	\$190,458	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$190,558	Q2.S.G	University of California, Los Angeles
Decoding the RGS14 Interactome/Signalosome in CA2 hippocampal neurons	\$191,640	Q2.Other	Emory University
Identification of TSC cellular phenotypes using patient-derived iPSCs	\$193,750	Q2.S.D	Rutgers University
Protein network of high risk copy number variants for psychiatric disorders	\$193,750	Q2.Other	University of California, San Diego
VIP Family Meetings	\$194,646	Q2.S.G	VIP Family Meetings
Imaging of protein synthesis and ubiquitination in fragile x syndrome	\$195,000	Q2.S.D	Emory University
Statistical methodology and analysis of the Simons Simplex Collection and related data	\$197,422	Q2.S.G	University of Pennsylvania
24.0	\$197,500	Q2.S.E	UNIVERSITY OF CHICAGO
Role of autism-associated chromatin remodeler Brg1 in neuronal development	\$198,750	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Simons Variation in Individuals Project (VIP) Principal Investigator	\$198,817	Q2.S.G	Columbia University
Immune signaling in the developing brain in mouse models of ASD	\$200,000	Q2.S.A	University of California, Davis
Identification of human-relevant CLOCK molecular signaling pathways	\$201,875	Q2.S.E	UT SOUTHWESTERN MEDICAL CENTER

Project Title	Funding	Strategic Plan Objective	Institution
Predicting risk and resilience in ASD through social visual engagement	\$202,265	Q2.L.B	Emory University
Mechanisms of Autonomic Brainstem Development	\$202,500	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
Thalamic activity and structure and surface neural oscillations in autism	\$207,016	Q2.Other	Children's Hospital of Philadelphia
Astrocytes contribution to tuberous sclerosis pathology	\$208,125	Q2.S.D	Yale University
Molecular control of prefrontal cortical circuitry in autism	\$211,875	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Long non-coding RNAs in gene regulatory networks underlying Autism	\$211,875	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep	\$211,875	Q2.Other	New York University
Immune p38-alpha MAPK activation: Convergent mechanism linking autism models	\$212,061	Q2.S.A	Florida Atlantic University
Characterizing Sensory Hypersensitivities in Autism	\$215,214	Q2.L.B	Massachusetts General Hospital
Time Perception and Timed Performance in Autism	\$219,234	Q2.Other	MICHIGAN STATE UNIVERSITY
CHARACTERIZATION OF OXYTOCIN RECEPTORS IN AUTISM SPECTRUM DISORDER	\$220,839	Q2.Other	University of California, Davis
ANALYSIS OF CORTICAL FUNCTION	\$222,861	Q2.Other	National Institutes of Health
Autism Spectrum Disorder Diagnostic/Therapeutic Agent	\$225,000	Q2.S.A	SPARK2FLAME, INC.
Correcting excitatory-inhibitory imbalance in autism	\$225,000	Q2.Other	University of North Carolina
Role of a novel PRC1 complex in neurodevelopment and ASD neurobiology	\$225,000	Q2.Other	New York University
UBR7 is a novel chromatin directed E3 ubiquitin ligase	\$225,956	Q2.Other	Northwestern University
Coordinate actions between methyl-CpG binding proteins in neuronal development	\$226,585	Q2.S.D	University of Wisconsin
Reducing Diversity at the Gamma Protocadherin Locus by CRISPR Targeting	\$230,739	Q2.Other	JACKSON LABORATORY
Chloride homeostasis and GABA maturation in fragile X syndrome	\$231,750	Q2.S.D	Northwestern University
DETECTING THE TRANSFER OF MATERNAL ANTIBODIES INTO THE FETAL RHESUS MONKEY BRAIN	\$233,500	Q2.S.A	University of California, Davis
Electrophysiological Response to Executive Control Training in Autism	\$235,084	Q2.Other	CHILDREN'S HOSPITAL CORPORATION
Mapping Thalamocortical Networks Across Development in ASD	\$235,500	Q2.Other	Vanderbilt University
BRAIN MICROSTRUCTURE & BEHAVIOR IN NEWLY-DIAGNOSED TODDLERS/PRESCHOOLERS WITH ASD	\$236,506	Q2.Other	Washington University in St. Louis

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Quantitative Measurements of Cortical Excitability in Neurodevelopmental Disorder	\$237,250	Q2.Other	STANFORD UNIVERSITY
Variation in Neuroligin Concentration and Presynaptic Functional Development	\$237,438	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Neural basis underlying autistic behaviors	\$240,000	Q2.Other	The Scripps Research Institute
Interneuron subtype-specific malfunction in autism spectrum disorders	\$240,000	Q2.Other	New York University
Self-Regulation and Sleep in Children At Risk for Autism Spectrum Disorders	\$240,004	Q2.S.E	PURDUE UNIVERSITY
Simons Variation in Individuals Project (VIP) Statistical Core Site	\$242,046	Q2.S.G	Columbia University
Simons Variation in Individuals Project (VIP) Site	\$245,108	Q2.S.G	Boston Children's Hospital
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$246,539	Q2.Other	Stanford University
Macrophage Polarization and Utility of in Vivo Therapy with a Brain-Permeable Anti-TNF Agent in Models of Autism	\$246,807	Q2.S.A	Emory University
Deficits in KCC2 activity and the pathophysiology of Autism spectrum disorders	\$247,500	Q2.Other	Tufts University
Novel candidate mechanisms of fragile X syndrome	\$248,235	Q2.S.D	UNIVERSITY OF MICHIGAN
Presynaptic Fragile X Proteins	\$249,000	Q2.S.D	DREXEL UNIVERSITY
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$249,000	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Roles of pro-inflammatory Th17 cells in autism	\$249,729	Q2.S.A	New York University
Translational dysregulation in autism pathogenesis and therapy	\$250,000	Q2.S.D	Massachusetts General Hospital
Identification of genes responsible for a genetic cause of autism	\$250,000	Q2.Other	Case Western Reserve University
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$250,167	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$250,546	Q2.Other	PRINCETON UNIVERSITY
Synergy between genetic risk and placental vulnerability to immune events	\$250,874	Q2.S.A	Stanford University
Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$253,652	Q2.S.G	University of California, Los Angeles
Genetic Modifiers of Seizure Disorders in Fragile X Syndrome	\$261,539	Q2.S.D	Emory University
Sex-specific modulation of ASD liability: Compensatory mechanisms and recurrence	\$266,489	Q2.S.B	Washington University in St. Louis
Cell-specific molecular mechanisms underlying brain pathology in ASD	\$274,021	Q2.Other	University of California, Davis

Project Title	Funding	Strategic Plan Objective	Institution
Simons Variation in Individuals Project (VIP) Site	\$275,599	Q2.S.G	University of Washington
Neural and cognitive discoordination in autism-related mouse models	\$280,480	Q2.S.D	New York University
Developmental Linkage of Metabolic Homeostasis and Sociality	\$280,918	Q2.S.A	Indiana University
Decoding Affective Prosody and Communication Circuits in Autism	\$281,028	Q2.L.B	Stanford University
Macrophage Polarization and Utility of in Vivo Therapy with a Brain-Permeable Anti-TNF Agent in Models of Autism	\$282,639	Q2.S.A	Emory University
Platform for autism treatments from exome analysis	\$289,390	Q2.S.E	ROCKEFELLER UNIVERSITY
Development of vision and attention in typical and ASD individuals	\$291,359	Q2.S.G	BROWN UNIVERSITY
Statistical Methods for Ultrahigh-dimensional Biomedical Data	\$294,132	Q2.Other	PRINCETON UNIVERSITY
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$299,537	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Mechanisms of Motor Skill Learning in the Fragile X Mouse Model	\$300,434	Q2.S.D	University of Nebraska
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$306,829	Q2.Other	University of Pennsylvania
Simons Variation in Individuals Project (Simons VIP) Functional Imaging Site and Structural Imaging/Phenotyping Site	\$309,295	Q2.S.G	Children's Hospital of Philadelphia
Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$309,592	Q2.Other	Duke University
DEVELOPMENTAL SYNAPTOPATHIES ASSOCIATED WITH TSC, PTEN AND SHANK3 MUTATIONS	\$310,746	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
Ontogeny and neural basis of social visual engagement in monkeys	\$312,542	Q2.Other	Emory University
Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$312,853	Q2.Other	Children's Hospital of Philadelphia
Social Brain Networks for the Detection of Agents and Intentions	\$316,250	Q2.Other	Yale University
Functional Genomics of Human Brain Development	\$317,764	Q2.Other	Yale University
Caspr2 as an autism candidate gene: a proteomic approach to function & structure.	\$318,000	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Intra-Prenatal Origins of Neurometabolic Consequences	\$319,550	Q2.S.A	University of California, Los Angeles
Impairments of Theory of Mind disrupt patterns of brain activity	\$321,000	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Role of UBE3A in the Central Nervous System	\$321,269	Q2.S.D	University of North Carolina

Project Title	Funding	Strategic Plan Objective	Institution
Molecular Dissection of Calmodulin Domain Functions	\$321,473	Q2.Other	UNIVERSITY OF IOWA
Inhibitory mechanisms for sensory map plasticity in cerebral cortex.	\$326,282	Q2.Other	University of California, Berkeley
Spastic paraplegia, neurodegeneration and autism: possible role for AT-1/SLC33A1?	\$330,978	Q2.Other	University of Wisconsin
Molecular mechanisms linking early life seizures, autism and intellectual disability	\$331,905	Q2.S.E	University of Colorado, Denver
Functional analysis of Neuroligin-Neurexin interactions in synaptic transmission	\$336,875	Q2.Other	University of Massachusetts, Worcester
LEARNING AND PLASTICITY IN THE HUMAN BRAIN	\$339,183	Q2.Other	National Institutes of Health
Effects of Social Gaze Training on Brain and Behavior in Fragile X Syndrome	\$352,066	Q2.S.D	STANFORD UNIVERSITY
ELUCIDATING THE FUNCTION OF CLASS 4 SEMAPHORINS IN GABAERGIC SYNAPSE FORMATION.	\$353,931	Q2.Other	BRANDEIS UNIVERSITY
THE ROLE OF MECP2 IN RETT SYNDROME	\$356,699	Q2.S.D	University of California, Davis
Research Project: Sensory and Multisensory Contributions to Autism	\$357,191	Q2.Other	Vanderbilt University
Emergence and Stability of Autism in Fragile X Syndrome	\$358,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA
Cellular Density and Morphology in the Autistic Temporal Human Cerebral Cortex	\$365,795	Q2.Other	University of California, Davis
Genetic-imaging study of obsessive compulsive behavior in autism	\$370,245	Q2.S.E	BROWN UNIVERSITY
Genome-wide Identification of Variants Affecting Early Human Brain Development	\$370,249	Q2.S.G	University of North Carolina
AUDITORY AND INTEGRATIVE FUNCTIONS OF THE PREFRONTAL CORTEX	\$370,498	Q2.Other	University of Rochester
Translational Regulation of Adult Neural Stem Cells	\$372,633	Q2.S.D	University of Wisconsin
Engrailed targets and the control of synaptic circuits in Drosophila	\$375,000	Q2.Other	UNIVERSITY OF PUERTO RICO MED SCIENCES
Verbal/non-verbal asynchrony in adolescents with high-functioning Autism	\$376,077	Q2.Other	EMERSON COLLEGE
Development and afferent regulation of auditory neurons	\$376,200	Q2.S.D	Florida State University
Neural networks for attention to internal and external sensory cues in ASD	\$379,582	Q2.Other	Vanderbilt University
Neurobiological Mechanism of 15q11-13 Duplication Autism Spectrum Disorder	\$380,625	Q2.S.D	BETH ISRAEL DEACONESS MEDICAL CENTER
Translation, Synchrony, and Cognition	\$380,953	Q2.S.D	New York University
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$382,268	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE

Project Title	Funding	Strategic Plan Objective	Institution
Genetic and Developmental Analyses of Fragile X Mental Retardation Protein	\$383,322	Q2.S.D	Vanderbilt University
Optogenetic treatment of social behavior in autism	\$385,000	Q2.Other	University of California, Los Angeles
Typical and Pathological Cellular Development of the Human Amygdala	\$385,000	Q2.Other	University of California, Davis
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$385,668	Q2.S.G	University of California, San Francisco
PHENOTYPING ASTROCYTES IN HUMAN NEURODEVELOPMENTAL DISORDERS	\$386,607	Q2.Other	STANFORD UNIVERSITY
Maternal Immune Activation in a Genetic Mouse Model of ASD	\$387,961	Q2.S.A	University of Nebraska
Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$388,354	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$388,750	Q2.Other	UNIVERSITY OF TEXAS MEDICAL BR GALVESTON
Sex-specific regulation of social play	\$391,250	Q2.S.B	BOSTON COLLEGE
Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder	\$392,186	Q2.L.A	SAN DIEGO STATE UNIVERSITY
A Family-Genetic Study of Autism and Fragile X Syndrome	\$393,739	Q2.S.D	Northwestern University
Organization of Excitatory and Inhibitory Circuits in ASD	\$395,236	Q2.Other	Boston University
Synaptic Phenotype, Development, and Plasticity in the Fragile X Mouse	\$395,642	Q2.S.D	MICHIGAN STATE UNIVERSITY
New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso	\$396,250	Q2.S.D	CLEVELAND CLINIC LERNER COM-CWRU
Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation	\$398,230	Q2.Other	VIRGINIA POLYTECHNIC INST AND ST UNIV
UNS: GARDE: Research to Quantify the Health and Development of Children with Disabilities Around the Clock	\$399,962	Q2.S.E	Kansas State University
Shank3 in Synaptic Function and Autism	\$401,250	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Cerebellum and autism: Neural mechanisms and modulation of predictive processing	\$402,769	Q2.Other	AMERICAN UNIVERSITY
The role of Foxp1-regulated signaling pathways in brain development and behavior	\$403,750	Q2.S.G	UT SOUTHWESTERN MEDICAL CENTER
The Impact of Pten Signaling on Neuronal Form and Function	\$405,000	Q2.Other	DARTMOUTH COLLEGE
Autism-linked endosomal mechanisms in neuronal arborization and connectivity	\$406,250	Q2.Other	BROWN UNIVERSITY
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$410,720	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER

Project Title	Funding	Strategic Plan Objective	Institution
Early Life Seizures Disrupt Critical Period Plasticity	\$413,020	Q2.S.E	University of Pennsylvania
Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity	\$415,500	Q2.S.E	Baylor College of Medicine
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Biology of Non-Coding RNAs Associated with Psychiatric Disorders	\$416,433	Q2.Other	University of Southern California
Neuronal Adaptation and Plasticity after Chronic Disuse	\$423,750	Q2.Other	New York University
Analysis of Shank3 Complete and Temporal and Spatial Specific Knockout Mice	\$425,202	Q2.Other	Duke University
The neurophysiology of sensory processing and multisensory integration in ASD	\$426,311	Q2.Other	SYRACUSE UNIVERSITY
Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	Q2.Other	PRINCETON UNIVERSITY
A computational framework for predicting the impact of mutations in autism	\$431,352	Q2.S.G	University of California, San Diego
Mouse model of maternal allergic asthma and offspring autism-like behavioral deficits	\$432,669	Q2.S.A	MOUNT HOLYOKE COLLEGE
Phenotypic Characterization of Gene Disrupting Mutations in ASD	\$435,213	Q2.S.G	University of Washington
Simons Variation in Individuals Project (VIP) Recruitment Core and Phase 2 Coordination Site	\$436,237	Q2.S.G	Geisinger Clinic
Cortical Plasticity in Autism Spectrum Disorders	\$437,188	Q2.Other	BETH ISRAEL DEACONESS MEDICAL CENTER
Heparan sulfate in neurophysiology and neurological disorders	\$449,744	Q2.Other	SANFORD-BURNHAM MEDICAL RESEARCH INSTIT
Genetics of conotruncal defects and associated neurodevelopmental outcomes	\$453,446	Q2.S.E	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
BDNF and the Restoration of Synaptic Plasticity in Fragile X and Autism	\$455,630	Q2.S.D	University of California, Irvine
High content assays for cellular and synaptic phenotypes	\$462,191	Q2.Other	University of California, San Diego
The neurobiological basis of heterogeneous social and motor deficits in ASD	\$464,220	Q2.Other	University of Southern California
Cognitive and Neural Flexibility in Autism	\$480,296	Q2.Other	University of Miami
Dissecting neural mechanisms integrating multiple inputs in <i>C. elegans</i>	\$485,000	Q2.Other	SALK INSTITUTE FOR BIOLOGICAL STUDIES
Thalamocortical circuit defects in developmental brain disorders	\$490,462	Q2.S.D	University of Maryland
Language Development in Fragile X Syndrome	\$495,501	Q2.S.D	University of California, Davis
Gaining insight into psychiatric disease by engineering piece by piece the human brain in vitro.	\$496,813	Q2.Other	STANFORD UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
Reproducible protocols for robust cortical neuron and astroglial differentiation	\$500,132	Q2.Other	University of California, San Diego
Predictors of Cognitive Development in Autism Spectrum Disorder	\$504,641	Q2.L.A	University of California, Davis
Executive Function in Children with Typical and Atypical Language Abilities	\$514,484	Q2.Other	University of Wisconsin
The Social Brain in Schizophrenia and Autism Spectrum Disorders	\$519,563	Q2.Other	HARTFORD HOSPITAL
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$521,650	Q2.Other	COLD SPRING HARBOR LABORATORY
Bidirectional Tyrosine Kinase Signaling	\$523,695	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
THE COGNITIVE SEARCHLIGHT: TRN CIRCUIT DISSECTION IN HEALTH AND DISEASE	\$528,288	Q2.Other	New York University
Treatment of Medical Conditions among Individuals with Autism Spectrum Disorders	\$528,903	Q2.S.E	National Institutes of Health
Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders	\$544,025	Q2.Other	University of Wisconsin
Synaptic pathophysiology of the 16p11.2 microdeletion mouse model	\$557,176	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Biological Determinants of Brain Variation in Autism	\$575,716	Q2.S.G	University of Wisconsin
Dissecting recurrent microdeletion syndromes using dual-guide genome editing	\$580,798	Q2.Other	Massachusetts General Hospital
GABRB3 and Placental Vulnerability in ASD	\$581,537	Q2.S.A	STANFORD UNIVERSITY
Mechanotransduction C. elegans	\$588,908	Q2.Other	Massachusetts General Hospital
A Family-Genetic Study of Autism and Fragile X Syndrome	\$597,808	Q2.S.D	Northwestern University
Neuronal Activity-Dependent Regulation of MeCP2	\$600,383	Q2.S.D	Harvard University
Tet-mediated Epigenetic Modulation in Autism	\$603,129	Q2.S.D	Emory University
Mathematical Cognition in Autism: A Cognitive and Systems Neuroscience Approach	\$605,511	Q2.Other	STANFORD UNIVERSITY
Dynamic regulation of Shank3 and ASD	\$612,287	Q2.Other	Johns Hopkins University
Impact of SynGAP1 Mutations on Synapse Maturation and Cognitive Development	\$614,568	Q2.Other	The Scripps Research Institute
Brain Bases of Language Deficits in SLI and ASD	\$616,032	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Neurotrophic Factor Regulation of Gene Expression	\$618,134	Q2.S.D	Harvard University
Role of somatic mosaicism in autism, schizophrenia, and bipolar disorder brain	\$619,801	Q2.S.G	HUGO W. MOSER RES INST KENNEDY KRIEGER
Foundation Associates agreement (BrainNet)	\$625,000	Q2.S.C	Foundation Associates
Genotype-Phenotype Relationships in Fragile X Families	\$633,789	Q2.S.D	University of California, Davis

Project Title	Funding	Strategic Plan Objective	Institution
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$639,375	Q2.S.G	SLOAN-KETTERING INST CAN RESEARCH
Integrity and Dynamic Processing Efficiency of Networks in ASD	\$641,036	Q2.Other	SAN DIEGO STATE UNIVERSITY
Multiscale Genetic Connectivity of Primate Social Circuits	\$647,114	Q2.Other	UNIVERSITY OF UTAH
Inhibitory dysfunction in autism	\$647,425	Q2.Other	University of Washington
Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$659,700	Q2.S.G	Duke University
Dimensional analysis of developmental brain disorders using an online, genome-first approach	\$667,178	Q2.S.G	Geisinger Clinic
Neural Phenotypes of Females with Autism Spectrum Disorder	\$675,236	Q2.S.B	University of California, Davis
Function and Structure Adaptations in Forebrain Development	\$678,394	Q2.Other	CHILDREN'S HOSPITAL OF LOS ANGELES
Induced neuronal cells: A novel tool to study neuropsychiatric diseases	\$680,862	Q2.Other	STANFORD UNIVERSITY
FUNCTIONAL AND STRUCTURAL OPTICAL BRAIN IMAGING	\$682,022	Q2.Other	National Institutes of Health
Computational characterization of language use in autism spectrum disorder	\$692,720	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
Functional connectivity substrates of social and non-social deficits in ASD	\$701,636	Q2.Other	Massachusetts General Hospital
Characterizing mechanistic heterogeneity across ADHD and Autism	\$709,255	Q2.Other	OREGON HEALTH & SCIENCE UNIVERSITY
FUNCTION OF NEUREXINS	\$716,276	Q2.Other	STANFORD UNIVERSITY
MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism	\$727,821	Q2.S.D	CHILDREN'S HOSPITAL CORPORATION
The Elongation Hypothesis of Autism	\$760,000	Q2.Other	University of North Carolina
Longitudinal MRI Study of Brain Development in Fragile X	\$769,619	Q2.S.D	STANFORD UNIVERSITY
Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder	\$770,599	Q2.L.A	University of California, Davis
The Autistic Brain Over 45: The Anatomic, Functional, and Cognitive Phenotype	\$771,520	Q2.L.A	SAN DIEGO STATE UNIVERSITY
2/2 Somatic mosaicism and autism spectrum disorder	\$796,055	Q2.S.G	Yale University
Single-cell approaches to deconvolution of disease-associated signals	\$817,969	Q2.Other	University of California, San Diego
Mosaicism in focal cortical dysplasias spectrum seen in neuropsychiatric disease	\$862,077	Q2.S.G	ROCKEFELLER UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
Neuronal Correlates of Autistic Traits in ADHD and Autism	\$870,670	Q2.Other	New York University
Regulation of Neuroligins and Effects on Synapse Number and Function	\$995,177	Q2.Other	National Institutes of Health
A gene-driven systems approach to identifying autism pathology	\$998,627	Q2.S.G	University of California, San Francisco
The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,125,989	Q2.Other	National Institutes of Health
Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders	\$1,221,847	Q2.S.D	National Institutes of Health
Functional Genomics of Human Brain Development	\$1,313,408	Q2.Other	Yale University
PEDIATRIC BRAIN IMAGING	\$1,507,456	Q2.L.A	National Institutes of Health
FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN	\$1,695,557	Q2.Other	National Institutes of Health
1/2-Somatic mosaicism and autism spectrum disorder	\$1,800,263	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
A Longitudinal MRI Study of Infants at Risk for Autism	\$2,401,906	Q2.L.A	University of North Carolina
Multimodal Developmental Neurogenetics of Females with ASD	\$2,703,126	Q2.S.B	Yale University

